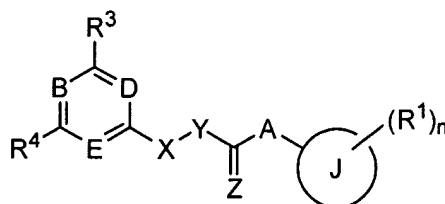


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the Application.

LISTING OF CLAIM

1. (original) A compound according to Formula I,



or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

B, D, and E are each independently either =N- or =C(R²)-, provided at least one of B, D, and E is =N-;

at each occurrence, each of R¹, R², and R³ is independently selected from -H, halogen, trihalomethyl, -CN, -NO₂, -OR⁵, -N(R⁵)OR⁵, -ON(R⁵)R⁵, -N(R⁵)N(R⁵)R⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, -C(=NR⁷)N(R⁵)R⁵, -C(=NR⁷)R⁵, -C(=NR⁷)OR⁵, -N(R⁵)C(=NR⁷)N(R⁵)R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, and optionally substituted arylalkyl;

n is zero to five;

R⁴ is selected from -H, halogen, -CN, -NO₂, -N(R⁵)OR⁵, -ON(R⁵)R⁵, -N(R⁵)N(R⁵)R⁵, -OR⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, -C(=NR⁷)N(R⁵)R⁵, -C(=NR⁷)R⁵, -C(=NR⁷)OR⁵, -N(R⁵)C(=NR⁷)N(R⁵)R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl,

optionally substituted heterocyclyl, optionally substituted heterocyclylalkyl, and optionally substituted arylalkyl;

R^2 and R^3 , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

R^2 and R^4 , together with the atom or atoms to which they are attached, can combine to form a three- to seven-membered optionally substituted heterocyclyl, optionally substituted aryl, or optionally substituted cycloalkyl;

each R^5 is independently selected from -H, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, optionally substituted lower heterocyclylalkyl, and a single bond to an atom of R^1 ;

two of R^5 , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

R^5 and R^6 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

R^5 and R^7 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from -C(=O)-, -C(R^6) R^6 -, -O-, -N(R^5)-, -C(=NR⁷)-, and -S(O)₀₋₂-; provided when X is -O- or -N(R^5)-, then Y cannot be -C(H) R^{6a} -, where R^{6a} is -C(R^{20})(R^{21}) R^{22} wherein at least one of R^{20} , R^{21} and R^{22} is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either -C(R^6)=C(R^6)- or -C≡C-;

Z is selected from O, S, and a double bond to an atom of R^1 ;

A is either -N(R^5)- or a single bond;

each R^6 is independently selected from -H, halogen, trihalomethyl, -CN, -NO₂, -NH₂, -OR⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, optionally substituted arylalkyl, and a single bond to an atom of R² of D or E when said either D or E is =C(R²)-;

two of R⁶, together with the atom or atoms to which they are attached, can combine to form one of an optionally substituted three to seven-membered alicyclic, an optionally substituted three to seven-membered heteroalicyclic, and a double bond to an atom of R² of D or E when said either D or E is =C(R²)-;

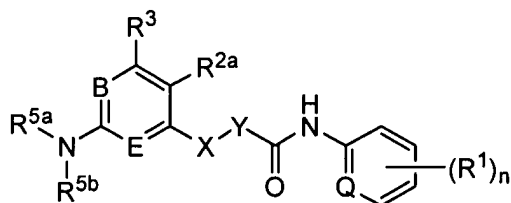
each R⁷ is independently selected from -H, -CN, -NO₂, -N(R⁵)R⁵, -OR⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{[2-amino-5-cyano-6-(methyl-thio)pyrimidin-4-yl]thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(4-methyl-1,3-thiazol-2-yl)acetamide, 2-amino-4-{[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio}-6-(methylthio)pyrimidine-5-carbonitrile, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-thiazol-2-ylacetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide,

4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.

2. (original) The compound according to claim 1, wherein J is either a six-membered aryl or a five- to six-membered heteroaryl.
3. (original) The compound according to claim 2, wherein D is $=C(R^2)-$.
4. (original) The compound according to claim 3, wherein R^4 is $-N(R^5)R^5$.
5. (original) The compound according to claim 4, of Formula II,



II

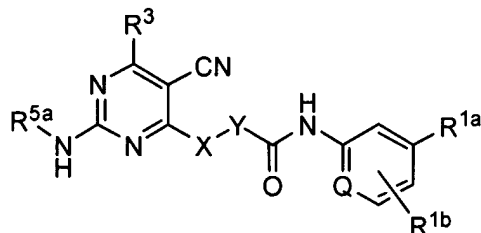
wherein, R^1 , R^2 , R^3 , R^5 , n , B, E, X, and Y are as defined above; and Q is either $=N-$ or $=C(H)-$.

6. (original) The compound according to claim 5, wherein R^{2a} is selected from halogen, $-CN$, $-C(=O)N(R^5)R^5$, $-CF_3$, $-CO_2R^5$, $-C(R^5)=C(R^5)R^5$, $-C\equiv C-R^5$, and $-NO_2$.
7. (original) The compound according to claim 6, wherein at least one of R^{5a} and R^{5b} is $-H$.
8. (original) The compound according to claim 7, wherein R^3 is selected from $-OR^5$, $-NR^5R^5$, and $-S(O)_{0-2}R^5$.
9. (original) The compound according to claim 8, wherein at least one of B and E is $=N-$.
10. (original) The compound according to claim 9, wherein R^1 is selected from halogen, $-OR^5$, $-NR^5R^5$, $-S(O)_{0-2}R^5$, $-NO_2$, perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.

11. (original) The compound according to claim 10, wherein R^1 is selected from halogen, $-OR^5$, $-NR^5R^5$, $-S(O)_{0-1}R^5$, $-NO_2$, perhaloalkyl, and optionally substituted lower alkyl.

12. (original) The compound according to claim 11, wherein A is $-N(R^5)-$.

13. (original) The compound according to claim 12, of Formula III,



III

wherein, R^3 , R^5 , X, Y, and Q are as defined above; R^{1a} is selected from halogen, lower perfluoroalkyl, $-NO_2$, $-OR^5$, and optionally substituted C_{1-4} alkyl; and R^{1b} is selected from halogen, $-OR^5$, $-N(R^5)R^5$, $-SR^5$, perfluoroalkyl, and optionally substituted lower alkyl.

14. (original) The compound according to claim 13, wherein R^{1a} is selected from $-NO_2$, halogen, perfluoroalkyl, haloalkyl, optionally substituted C_{1-2} alkyl, and optionally substituted $-O-C_{1-2}$ alkyl.

15. (original) The compound according to claim 14, wherein R^3 is selected from optionally substituted $-O-C_{1-4}$ alkyl, $-O-C_{1-4}$ perfluoroalkyl, optionally substituted $-N(H)C_{1-4}$ alkyl, optionally substituted $-N(C_{1-4}alkyl)C_{1-4}alkyl$, optionally substituted $-S(O)_{0-2}-C_{1-4}alkyl$, and optionally substituted $-S(O)_{0-2}-C_{1-4}$ perfluoroalkyl.

16. (original) The compound according to claim 15, wherein Y is either $-N(H)-$ or $-C(R^6)R^6-$.

17. (original) The compound according to claim 16, wherein X is selected from $-O-$, $-N(R^5)-$ and $-S-$.

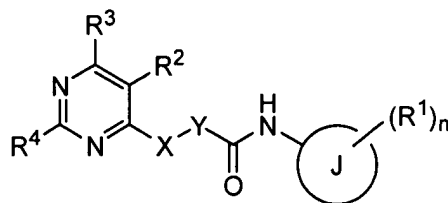
18. (original) The compound according to claim 17, wherein Y is $-C(R^6)R^6-$; wherein each R^6 is independently selected from $-H$, halogen, trihalomethyl, $-NH_2$, optionally substituted $-O-C_{1-4}$ alkyl, optionally substituted $-N(H)C_{1-4}$ alkyl, optionally substituted $-S-$

C₁₋₄alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl.

19. (original) The compound according to claim 18, wherein Y is -C(H)R⁶-; wherein R⁶ is independently selected from -H, halogen, trihalomethyl, -NH₂, optionally substituted -O-C₁₋₄alkyl, optionally substituted -N(H)C₁₋₄alkyl, optionally substituted -S-C₁₋₄alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl.

20. (original) The compound according to claim 19, wherein Q is =C(H)-.

21. (original) A compound according to Formula IV,



or a pharmaceutically acceptable salt, hydrate, or prodrug thereof, wherein,

R¹ is selected from halogen, -OR⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -NO₂, -C(O)R⁵, perhaloalkyl, optionally substituted lower alkyl, optionally substituted aryl, and optionally substituted arylalkyl.

n is zero to five;

R² is selected from halogen, -CN, -C(=O)N(R⁵)R⁵, -CF₃, -CO₂R⁵, -C(R⁵)=C(R⁵)R⁵, -C≡C-R⁵, and -NO₂;

R³ is selected from -H, halogen, trihalomethyl, -CN, -NO₂, -OR⁵, -N(R⁵)OR⁵, -ON(R⁵)R⁵, -N(R⁵)N(R⁵)R⁵, -N(R⁵)R⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, -C(O)N(R⁵)R⁵, -N(R⁵)SO₂R⁵, -N(R⁵)C(O)R⁵, -N(R⁵)CO₂R⁵, -C(O)R⁵, -C(=NR⁷)N(R⁵)R⁵, -C(=NR⁷)R⁵, -C(=NR⁷)OR⁵, -N(R⁵)C(=NR⁷)N(R⁵)R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower

alkynyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, and optionally substituted arylalkyl;

R^4 is selected from -CN, halogen, $-\text{NO}_2$, $-\text{N}(\text{R}^5)\text{OR}^5$, $-\text{ON}(\text{R}^5)\text{R}^5$, $-\text{N}(\text{R}^5)\text{N}(\text{R}^5)\text{R}^5$, $-\text{OR}^5$, $-\text{N}(\text{R}^5)\text{R}^5$, $-\text{SO}_2\text{N}(\text{R}^5)\text{R}^5$, $-\text{C}(\text{O})\text{N}(\text{R}^5)\text{R}^5$, $-\text{C}(=\text{NR}^7)\text{N}(\text{R}^5)\text{R}^5$, $-\text{C}(=\text{NR}^7)\text{R}^5$, $-\text{C}(=\text{NR}^7)\text{OR}^5$, $-\text{N}(\text{R}^5)\text{C}(=\text{NR}^7)\text{N}(\text{R}^5)\text{R}^5$, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl;

each R^5 is independently selected from -H, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted lower arylalkyl, optionally substituted heterocyclyl, and optionally substituted lower heterocyclalkyl;

two of R^5 , together with the atom or respective atoms to which they are attached, can combine to form an optionally substituted three- to seven-membered heterocyclic;

R^5 and R^6 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

R^5 and R^7 , together with the atom or atoms to which they are attached, can combine to form a five- to seven-membered optionally substituted heterocyclyl;

each of X and Y is independently selected from $-\text{C}(=\text{O})-$, $-\text{C}(\text{R}^6)\text{R}^6-$, $-\text{O}-$, $-\text{N}(\text{R}^5)-$, $-\text{C}(=\text{NR}^7)-$, and $-\text{S}(\text{O})_{0-2}-$; provided when X is $-\text{O}-$ or $-\text{N}(\text{R}^5)-$, then Y cannot be $-\text{C}(\text{H})\text{R}^{6a}-$, where R^{6a} is $-\text{C}(\text{R}^{20})(\text{R}^{21})\text{R}^{22}$ wherein at least one of R^{20} , R^{21} and R^{22} is selected from phenyl, naphthyl, cyclohexyl, dihydronaphthyl tetrahydronaphthyl, and a five- to six-membered heteroaryl, each optionally substituted;

or X and Y can combine to form either $-\text{C}(\text{R}^6)=\text{C}(\text{R}^6)-$ or $-\text{C}\equiv\text{C}-$;

each R^6 is independently selected from -H, halogen, trihalomethyl, -CN, $-\text{NO}_2$, $-\text{NH}_2$, $-\text{OR}^5$, $-\text{N}(\text{R}^5)\text{R}^5$, $-\text{S}(\text{O})_{0-2}\text{R}^5$, $-\text{SO}_2\text{N}(\text{R}^5)\text{R}^5$, $-\text{CO}_2\text{R}^5$, $-\text{C}(\text{O})\text{N}(\text{R}^5)\text{R}^5$, $-\text{N}(\text{R}^5)\text{SO}_2\text{R}^5$, $-\text{N}(\text{R}^5)\text{C}(\text{O})\text{R}^5$, $-\text{N}(\text{R}^5)\text{CO}_2\text{R}^5$, $-\text{C}(\text{O})\text{R}^5$, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heterocyclyl, optionally substituted heterocyclalkyl, optionally substituted arylalkyl, and a single bond to an atom of R^1 ;

two of R⁶, together with the atom or atoms to which they are attached, can combine to form either an optionally substituted three to seven-membered alicyclic or an optionally substituted three to seven-membered heteroalicyclic;

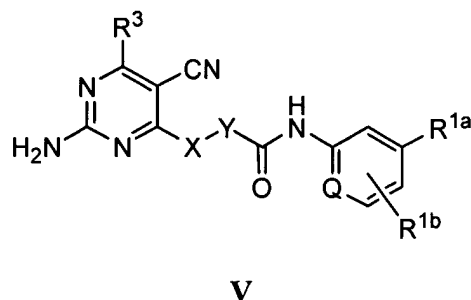
each R⁷ is independently selected from -H, -CN, -NO₂, -N(R⁵)R⁵, -OR⁵, -S(O)₀₋₂R⁵, -SO₂N(R⁵)R⁵, -CO₂R⁵, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, and a single bond to a carbon of J; and

J is selected from an optionally substituted five- to ten-membered aryl and an optionally substituted five- to ten-membered heteroaryl;

provided the compound is not one of: 2-(2-amino-5-cyano-6-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-(3-trifluoromethyl-phenyl)-acetamide, 2-{[2-amino-5-cyano-6-(methyl-thio)pyrimidin-4-yl]thio}-N-[3-(butyloxy)phenyl]acetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-benzothiazol-2-ylacetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-(4-methyl-1,3-thiazol-2-yl)acetamide, 2-amino-4-{[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio}-6-(methylthio)pyrimidine-5-carbonitrile, 2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-1,3-thiazol-2-ylacetamide, 2-(5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 5-amino-2-methylsulfanyl-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(6-amino-5-cyano-2-methylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, 4,5-diamino-2-(2-methoxy-ethoxy)-thieno[2,3-d]pyrimidine-6-carboxylic acid phenylamide, 2-(5-cyano-6-phenyl-2-phenylcarbamoylethylmethylsulfanyl-pyrimidin-4-ylsulfanyl)-N-phenyl-acetamide, and a 2-(6-amino-3,5-dicyano-pyridin-2-ylsulfanyl)-N-phenyl-acetamide derivative.

22. (original) The compound according to claim 21, wherein R⁴ is -NR^{5a}R^{5b}; wherein at least one of R^{5a} and R^{5b} is -H.

23. (original) The compound according to claim 22, wherein X is selected from -O-, -N(R⁵)-, and -S(O)₀₋₂-.
24. (original) The compound according to claim 23, wherein Y is either -C(R⁶)R⁶- or -N(R⁵)-.
25. (original) The compound according to claim 24, wherein J is either phenyl or pyridyl.
26. (original) The compound according to claim 25, wherein R⁴ is -NH₂.
27. (original) The compound according to claim 26, wherein at least one of R¹ is selected from halo, -NO₂, -OR⁵, perfluoroalkyl, haloalkyl, and optionally substituted C₁₋₄alkyl.
28. (original) The compound according to claim 27, of Formula V,



wherein R¹, R³, X, and Y are as defined above; and Q is either =N- or =C(H)-.

29. (original) The compound according to claim 28, wherein R^{1a} is selected from halo, lower perfluoroalkyl, -NO₂, optionally substituted -O-C₁₋₄alkyl, and optionally substituted C₁₋₄alkyl.
30. (original) The compound according to claim 29, wherein R³ is selected from optionally substituted -O-C₁₋₄alkyl, -O-C₁₋₄perfluoroalkyl, optionally substituted -N(H)C₁₋₄alkyl, optionally substituted -N(C₁₋₄alkyl)C₁₋₄alkyl, optionally substituted -S(O)₀₋₂-C₁₋₄alkyl, and optionally substituted -S(O)₀₋₂-C₁₋₄perfluoroalkyl.
31. (original) The compound according to claim 30, wherein Y is -C(R⁶)R⁶-; wherein each R⁶ is independently selected from -H, halogen, trihalomethyl, -NH₂, optionally substituted -O-C₁₋₄alkyl, optionally substituted -N(H)C₁₋₄alkyl, optionally substituted -S-

C₁₋₄alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl.

32. (original) The compound according to claim 31, wherein Y is -C(H)R⁶-; wherein R⁶ is independently selected from -H, halogen, trihalomethyl, -NH₂, optionally substituted -O-C₁₋₄alkyl, optionally substituted -N(H)C₁₋₄alkyl, optionally substituted -S-C₁₋₄alkyl, optionally substituted lower alkyl, optionally substituted heterocyclyl, and optionally substituted heterocyclalkyl.

33. (original) The compound according to claim 32, wherein Q is =C(H)-.

34. (currently amended) The compound according to claim 1, selected from Table 3.

Table 3

Entry	Name	Structure
1	2-[(3-cyano-4,6-dimethyl-5-nitropyridin-2-yl)oxy]-N-[3-(trifluoromethyl)phenyl]acetamide	
2	N₂-(2-amino-6-chloropyrimidin-4-yl)- N-[3-(trifluoromethyl)phenyl]glycinamide	
3	[2-amino-6-(methylthio)pyrimidin-4-yl]methyl [3-(trifluoromethyl)phenyl]carbamate	
4	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[5-(trifluoromethyl)pyridin-2-yl]acetamide	

Table 3

Entry	Name	Structure
5	N ² -[2-amino-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
6	2-[[2-amino-6-(methylthio)pyrimidin-4-yl]oxy] N-[3-(trifluoromethyl)phenyl]acetamide	
7	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[3-(methyloxy)phenyl]acetamide	
8	N²-(2-amino-6-morpholin-4-yl)pyrimidin-4-yl) N-[3-(trifluoromethyl)phenyl]glycinamide	
9	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(4-chlorophenyl)acetamide	
10	2-[[2-amino-6-(1H-1,2,3-benzotriazol-1-yloxy)pyrimidin-4-yl]thio] N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
11	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-(3-chlorophenyl)acetamide	
12	N²-(2-amino-6-chloro-5-formylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
13	N²-(2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
14	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
15	2-[(2-amino-6-chloropyrimidin-4-yl)thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
16	2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-methyl-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
17	N ² -[4-amino-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
18	N ² -[4-(dimethylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
19	N ² -[4-(methylamino)-6-(methylthio)-1,3,5-triazin-2-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
20	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
21	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
22	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[3-(butyloxy)phenyl]acetamide	

Table 3

Entry	Name	Structure
23	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-benzothiazol-2-ylacetamide	
24	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(5-ethyl-1,3,4-thiadiazol-2-yl)acetamide	
25	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-(4-methyl-1,3-thiazol-2-yl)acetamide	
26	2-amino-4-[[2-(3,5-dimethyl-1H-pyrazol-1-yl)-2-oxoethyl]thio]-6-(methylthio)pyrimidine-5-carbonitrile	
27	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-1,3-thiazol-2-ylacetamide	
28	ethyl 5-[[([2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio)acetyl]amino]-4-cyano-3-methylthiophene-2-carboxylate	

Table 3

Entry	Name	Structure
29	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N-pyridin-2-ylacetamide	
30	2-amino-4-({2-[2,5-bis(methoxy)phenyl]-2-oxoethyl}thio)-6-(methylthio)pyrimidine-5-carbonitrile	
31	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N-[4-fluoro-3-(trifluoromethyl)phenyl]acetamide	
32	2- [(2,6-diaminopyrimidin-4-yl)thio] -N-[4-fluoro-3-(trifluoromethyl)phenyl]acetamide	
33	2- [(2,6-diaminopyrimidin-4-yl)thio] -N-[3-(trifluoromethyl)phenyl]acetamide	
34	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N-[4-chloro-3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
35	2-amino-4-(methylthio)-6-({2-oxo-1-[3-(trifluoromethyl)phenyl]pyrrolidin-3-yl}thio)pyrimidine-5-carbonitrile	
36	2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[6-(trifluoromethyl)pyridin-2-yl]acetamide	
37	2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[4-(trifluoromethyl)pyridin-2-yl]acetamide	
38	{6-(methylthio)-2-[(phenylmethyl)amino]pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	
39	{6-(methylamino)-2-(methylthio)pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	
40	{2-(methylthio)-6-[(phenylmethyl)amino]pyrimidin-4-yl}methyl [3-(trifluoromethyl)phenyl]carbamate	

Table 3

Entry	Name	Structure
41	2-{{2-(acetylamino)-5-cyano-6-(methylthio)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
42	(2S)-2-{{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]propanamide	
43	2-{{2-amino-6-chloro-5-formylpyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
44	N ² -{{2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl}-N-[3-(trifluoromethyl)phenyl]glycinamide	
45	2-{{2-amino-5-formyl-6-(methylamino)pyrimidin-4-yl}thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
46	2-{{2-amino-5-formyl-6-(methylthio)pyrimidin-4-yl}oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
47	2-{{[4-amino-6-(methylthio)-1,3,5-triazin-2-yl]oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
48	2-{{[2-amino-6-(methylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
49	2-amino-4-(methylthio)-6-{{[2-oxo-2-(3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)ethyl]thio}pyrimidine-5-carbonitrile	
50	2-{{(2-amino-6-chloro-5-formylpyrimidin-4-yl)oxy}-N-[3-(trifluoromethyl)phenyl]acetamide	
51	2-{{[2-amino-5-formyl-6-(phenylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
52	2-{{[2-amino-5-(hydroxymethyl)-6-(phenylthio)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	

Table 3

Entry	Name	Structure
53	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N- [2-methyl-3-(trifluoromethyl)phenyl] acetamide	
54	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N- [2-(methoxy)-5-(trifluoromethyl)phenyl] acetamide	
55	2- {[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio} -N- [2-chloro-5-(trifluoromethyl)phenyl] acetamide	
56	2- {[2-amino-5-(hydroxymethyl)-6-(methylthio)pyrimidin-4-yl]oxy} -N- [3-(trifluoromethyl)phenyl] acetamide	
57	N ² - (6-amino-1H-pyrazolo[3,4-d]pyrimidin-4-yl) -N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
58	N ² -[2-amino-5-[(E)-hydrazonomethyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
59	N ² -[2-amino-5-[(E)-(hydroxyimino)methyl]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
60	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
61	2-{[2-amino-5-cyano-6-(methylamino)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
62	2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio}-N-[2-amino-5-(trifluoromethyl)phenyl]acetamide	
63	2-amino-4-(methylthio)-6-({[6-(trifluoromethyl)-1H-benzimidazol-2-yl]methyl}thio)pyrimidine-5-carbonitrile	

Table 3

Entry	Name	Structure
64	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
65	N ² -[5-cyano-2-(methylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
66	2-{[2-amino-5-cyano-6-(dimethylamino)pyrimidin-4-yl]thio}-N-[3-(trifluoromethyl)phenyl]acetamide	
67	(S)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	
68	(2R)-2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]propanamide	
69	1-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	

Table 3

Entry	Name	Structure
70	(2S)-2-([2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]oxy)-3-methyl-N-[3-(trifluoromethyl)phenyl]butanamide	
71	N ² -[5-cyano-2-(dimethylamino)-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
72	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]glycinamide	
73	1-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-N-[3-(trifluoromethyl)phenyl]cyclopropane carboxamide	
74	N ² -[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
75	N ² -[2-amino-5-cyano-6-(methylsulfonyl)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
76	N ² -(5-cyano-2-morpholin-4-ylpyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
77	2-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]thio]-N-[3,5-bis(trifluoromethyl)phenyl]acetamide	
78	N ² -[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
79	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-(methoxy)-5-(trifluoromethyl)phenyl]-L-alaninamide	
80	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[2-chloro-5-(trifluoromethyl)phenyl]-L-alaninamide	
81	N²-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]alaninamide	

Table 3

Entry	Name	Structure
82	N²-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-[(4-methylpiperazin-1-yl)carbonyl]phenyl]-L-alaninamide	
83	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-alaninamide	
84	2-[(2-amino-5-cyano-6-morpholin-4-yl)pyrimidin-4-yl]thio]-N-[3-(trifluoromethyl)phenyl]acetamide	
85	(R)-1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]prolinamide	
86	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
87	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(dimethylamino)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide	

Table 3

Entry	Name	Structure
88	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
89	N ² -(2,6-diamino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
90	N ² -(2-amino-5-cyanopyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
91	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
92	N²-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-([2-(diethylamino)ethoxy]phenyl)-L-alaninamide	
93	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-1,2-dimethyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	

Table 3

Entry	Name	Structure
94	N^2 -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-amino-5-(trifluoromethyl)phenyl]-L-alaninamide	
95	ethyl [1-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-([3-(trifluoromethyl)phenyl]amino)carboxyl]hydrazino]acetate	
96	2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-2-methyl-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	
97	3,5-diamino-4,6-dimethyl-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
98	3-amino-4,6-dimethyl-5-nitro-N-[3-(trifluoromethyl)phenyl]furo[2,3-b]pyridine-2-carboxamide	
99	N^2 -(2-amino-5-cyano-6-hydroxypyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
100	N ² -[5-cyano-2-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
101	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-(tetrahydro-2H-pyran-4-ylmethyl)-N-[3-(trifluoromethyl)phenyl]glycinamide	
102	N ² -(2-amino-5-cyano-6-[[2-(dimethylamino)ethyl]oxy]pyrimidin-4-yl)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
103	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-6-[[[(1,1-dimethylethyl)oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysine]	
104	2-amino-4-(methylthio)-6-(methyl[(1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl]amino)pyrimidine-5-carbonitrile	

Table 3

Entry	Name	Structure
105	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-[2-(tetrahydro-2H-pyran-4-yl)ethyl]-N-[3-(trifluoromethyl)phenyl]glycinamide	
106	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-[[2-(diethylamino)ethyl]amino]-5-(trifluoromethyl)phenyl]-L-alaninamide	
107	2-amino-4-(methylthio)-6-(((1S)-1-[6-(trifluoromethyl)-1H-benzimidazol-2-yl]ethyl)amino)pyrimidine-5-carbonitrile	
108	2-{2-amino-5-cyano-6-[1-(3-trifluoromethyl-phenylcarbonyl)-1S-ethylamino]-pyrimidin-4-ylamino}-N-(3-trifluoromethyl-phenyl)-2S-propionamide	
109	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-(3-methylphenyl)glycinamide	

Table 3

Entry	Name	Structure
110	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-2-methyl-N-[3-(1-methylethyl)phenyl]glycinamide	
111	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-5-[imino(nitroamino)methyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
112	methyl 3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoate	
113	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-nitrophenyl)-L-alaninamide	
114	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
115	N ² -[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
116	N ² -[5-cyano-2-[(2-(methyloxy)ethyl)amino]-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
117	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	
118	N ² -[2-amino-5-cyano-6-(methylsulfinyl)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
119	N ² -[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
120	N ² -[2-amino-5-cyano-6-(propyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
121	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-2-methyl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	

Table 3

Entry	Name	Structure
122	N ² -[2-amino-5-cyano-6-[(1-methylethyl)oxy]pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
123	N-5-acetyl-N-2-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
124	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-aminophenyl)-L-alaninamide	
125	3-([N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl]amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
126	2-(methyloxy)ethyl ((4S)-4-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
127	2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	

Table 3

Entry	Name	Structure
128	1,1-dimethylethyl ((4S)-4-([2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino)-5-oxo-5-([3-(trifluoromethyl)phenyl]amino)pentyl)carbamate	
129	N-2-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
130	3-([N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl]amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
131	3-([N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl]amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	

Table 3

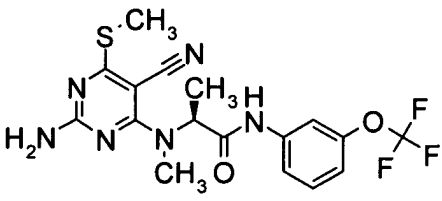
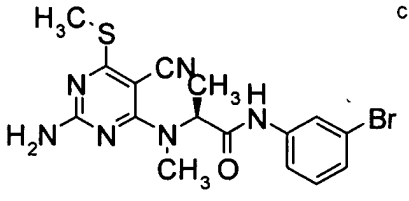
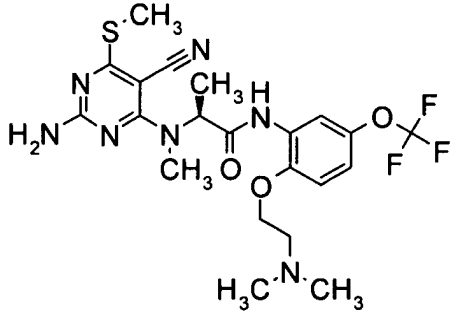
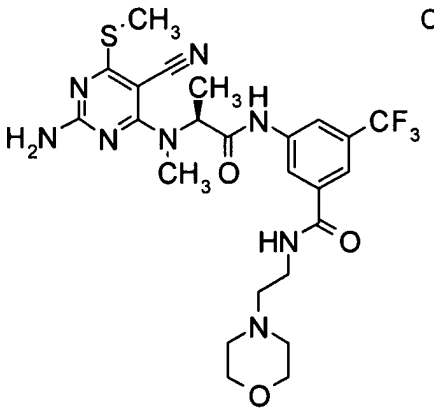
Entry	Name	Structure
132	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~2~-methyl-N-{3-[(trifluoromethyl)oxy]phenyl}-L-alaninamide	
133	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-(3-bromophenyl)-N~2~-methyl-L-alaninamide	
134	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-{2-[(2-(dimethylamino)ethyl)oxy]-5-[(trifluoromethyl)oxy]phenyl}-N~2~-methyl-L-alaninamide	
135	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-methyl-L-alanyl}amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	

Table 3

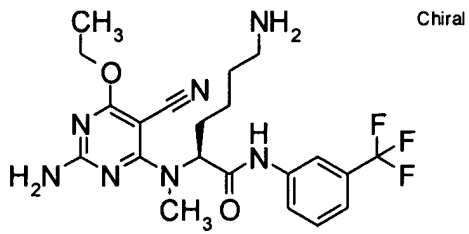
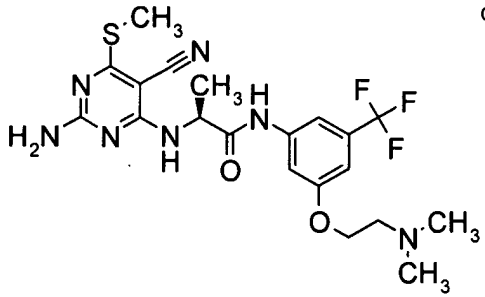
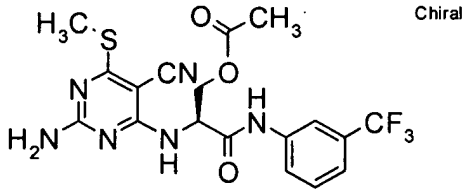
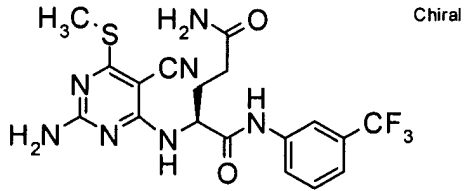
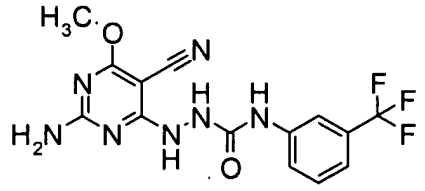
Entry	Name	Structure
136	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N~2~-methyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
137	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-{[2-(dimethylamino)ethoxy]-5-(trifluoromethyl)phenyl}]-L-alanineamide	
138	(2S)-2-{[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino}-3-oxo-3-{[3-(trifluoromethyl)phenyl]amino}propyl acetate	
139	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~1~-[3-(trifluoromethyl)phenyl]-L-glutamineamide	
140	2-[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide	

Table 3

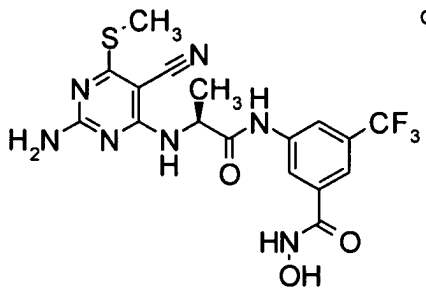
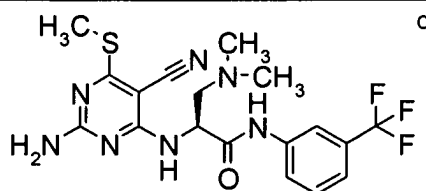
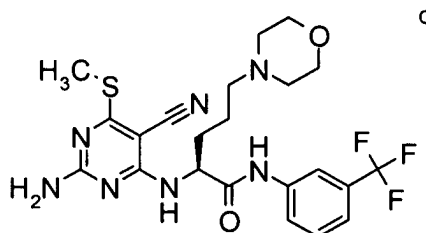
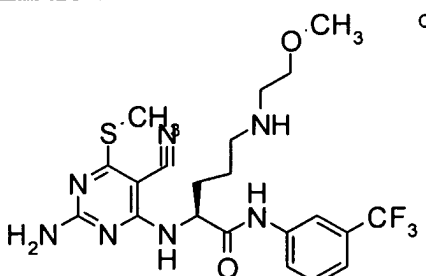
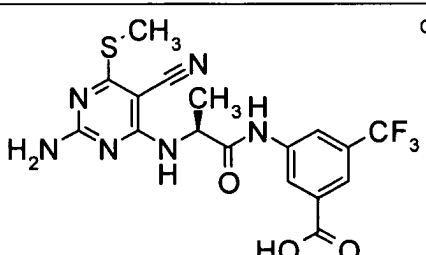
Entry	Name	Structure
141	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-N-hydroxy-5-(trifluoromethyl)benzamide	 <p>Chiral</p>
142	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 <p>Chiral</p>
143	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	 <p>Chiral</p>
144	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~5~-[2-(methyloxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	 <p>Chiral</p>
145	3-({N-[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoic acid	 <p>Chiral</p>

Table 3

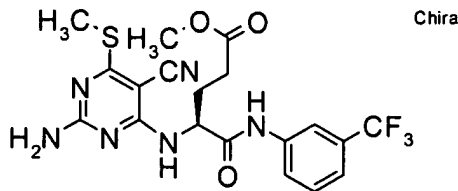
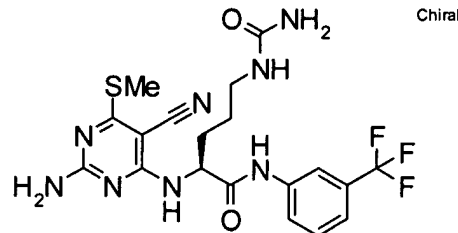
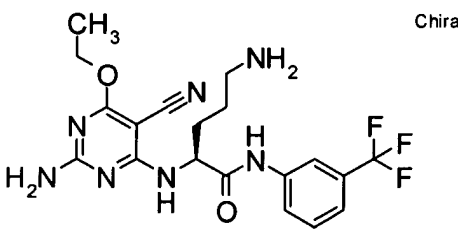
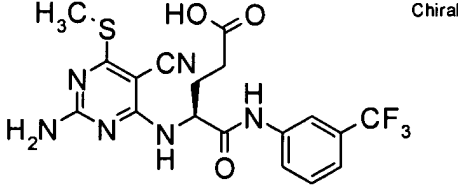
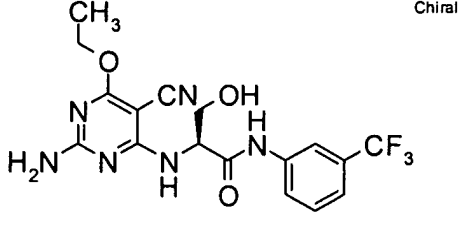
Entry	Name	Structure
146	methyl N~2~-{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
147	N ⁵ -(aminocarbonyl)-N~2~-{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
148	N ² -{2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
149	N ² -{2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine	
150	N ² -{2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-serinamide	

Table 3

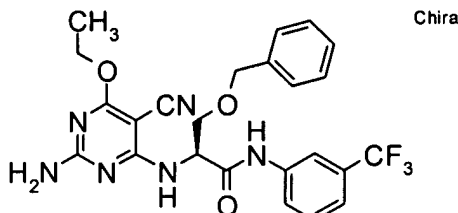
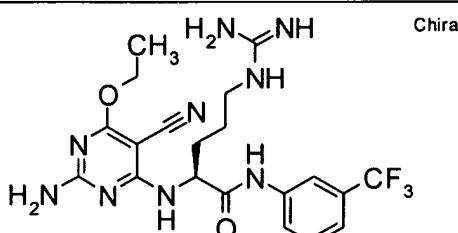
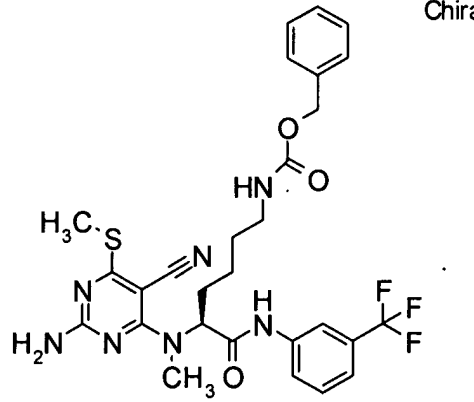
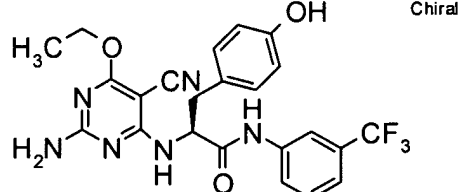
Entry	Name	Structure
151	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	
152	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-argininamide	
153	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N ² ~methyl-N ⁶ -{[(phenylmethyl)oxy]carbonyl}-N-[3-(trifluoromethyl)phenyl]-L-lysινamide	
154	N-α-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-tyrosinamide	

Table 3

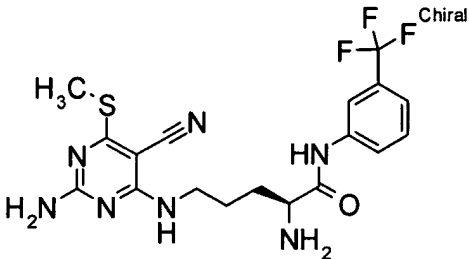
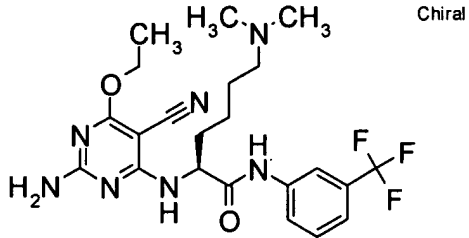
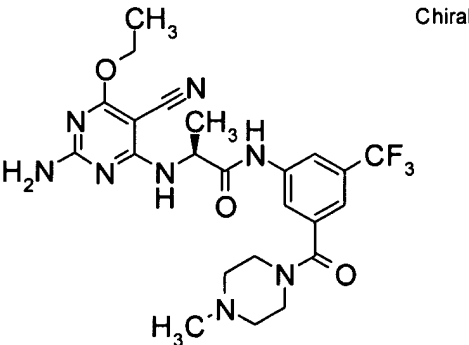
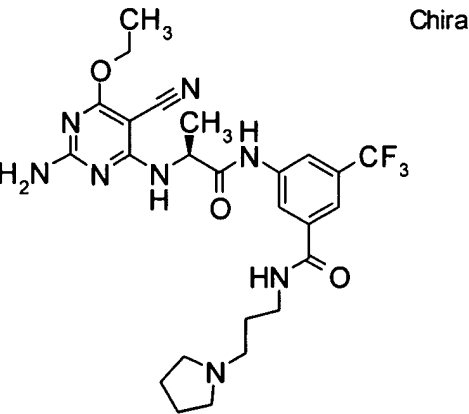
Entry	Name	Structure
155	N ⁵ -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
156	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N~6~,N~6~-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
157	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-[(4-methylpiperazin-1-yl)carbonyl]-5-(trifluoromethyl)phenyl]-L-alanineamide	
158	3-({N-[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-L-alanyl}amino)-N-(3-pyrrolidin-1-ylpropyl)-5-(trifluoromethyl)benzamide	

Table 3

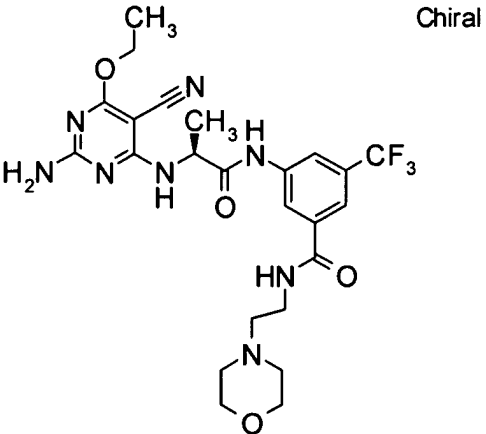
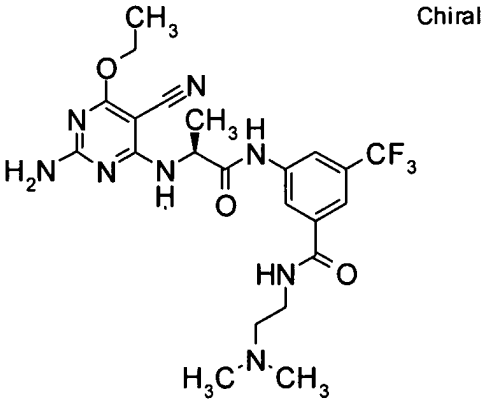
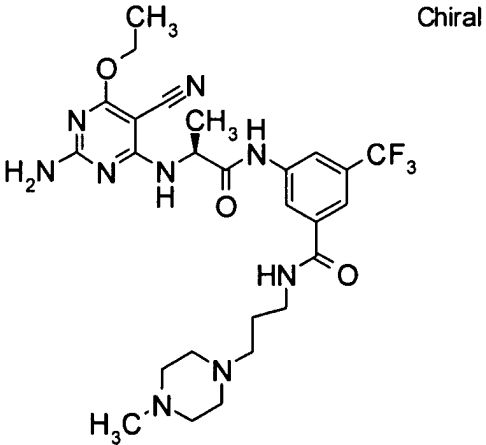
Entry	Name	Structure
159	3-((N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl)amino)-N-(2-morpholin-4-ylethyl)-5-(trifluoromethyl)benzamide	
160	3-((N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl)amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
161	3-((N-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-L-alanyl)amino)-N-[3-(4-methylpiperazin-1-yl)propyl]-5-(trifluoromethyl)benzamide	

Table 3

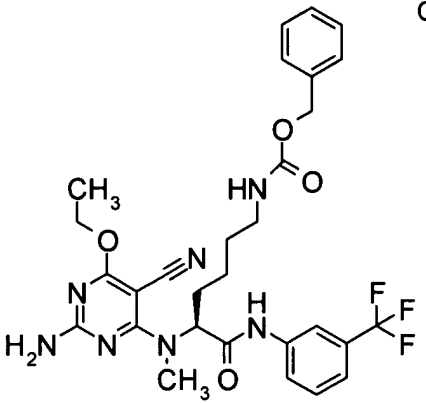
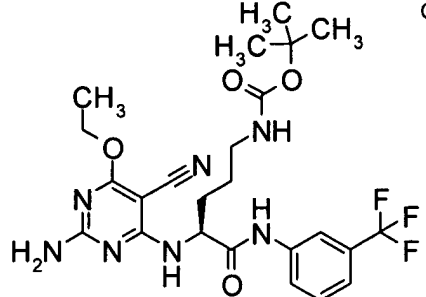
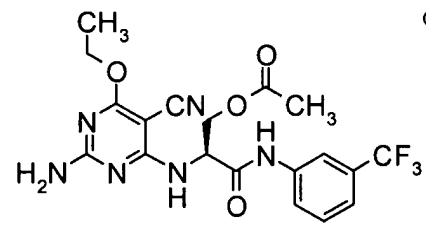
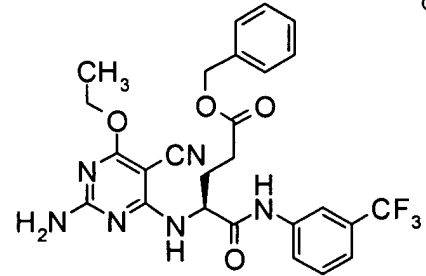
Entry	Name	Structure
162	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~2~-methyl-N ⁶ -[[[(phenylmethyl)oxy]carbonyl]-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
163	1,1-dimethylethyl ((4S)-4-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
164	(2S)-2-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-3-oxo-3-[[3-(trifluoromethyl)phenyl]amino]propyl acetate	
165	phenylmethyl N~2~-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	

Table 3

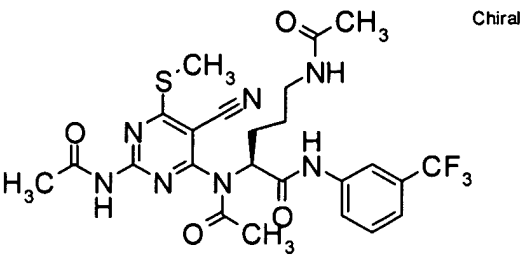
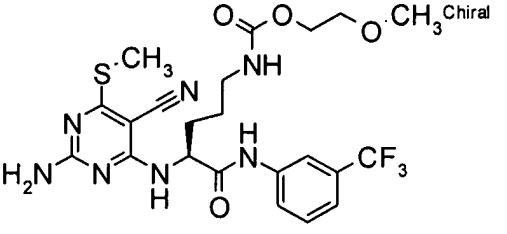
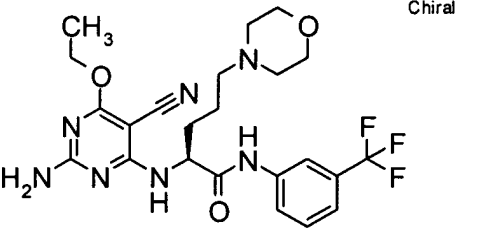
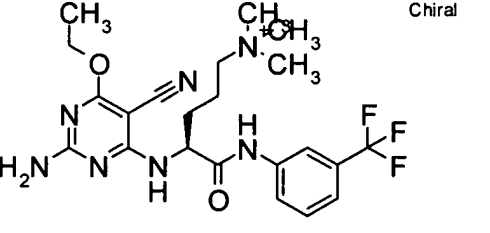
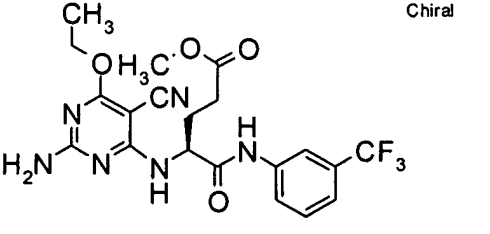
Entry	Name	Structure
166	N^2 , N^5 -diacetyl-N-2-[2-(acetamino)-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
167	2-(methyloxy)ethyl ((4S)-4-[[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	
168	N^2 -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-5-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-norvalinamide	
169	N-((4S)-4-[[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)-N,N-dimethylmethanaminium	
170	Methyl N^2 -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	

Table 3

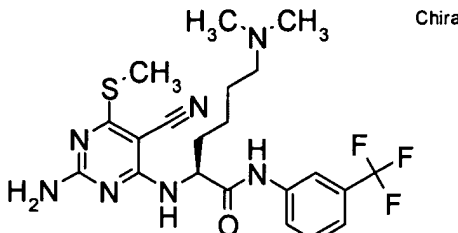
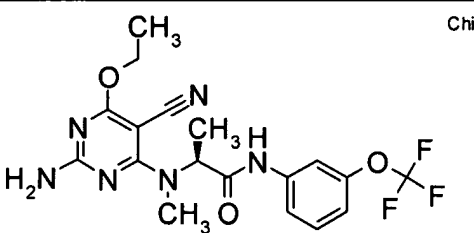
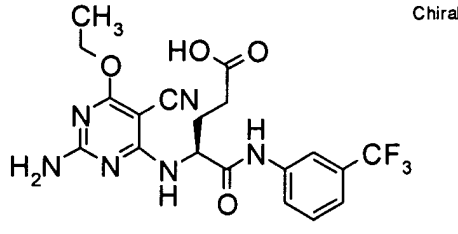
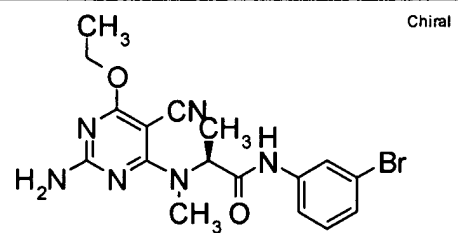
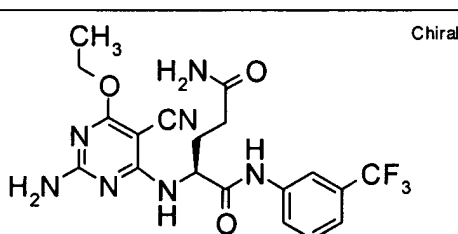
Entry	Name	Structure
171	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~6~,N~6~-dimethyl-N-[3-(trifluoromethyl)phenyl]-L-lysineamide	
172	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N~2~-methyl-N-[3-[(trifluoromethoxy)phenyl]-L-alanineamide	
173	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamine	
174	N~2~-[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N~2~-methyl-L-alanineamide	
175	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N ¹ -[3-(trifluoromethyl)phenyl]-L-glutamineamide	

Table 3

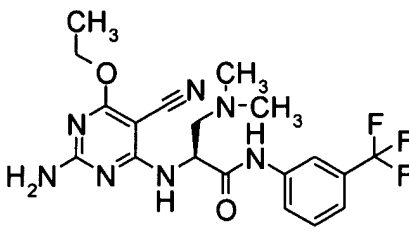
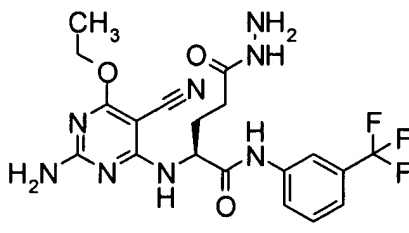
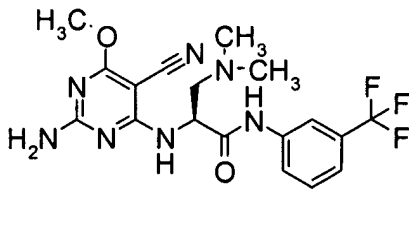
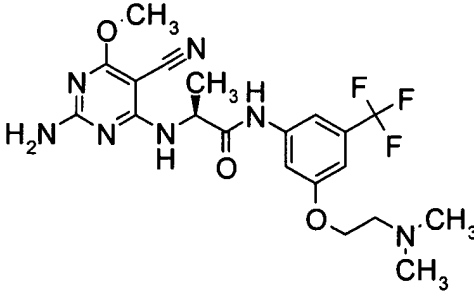
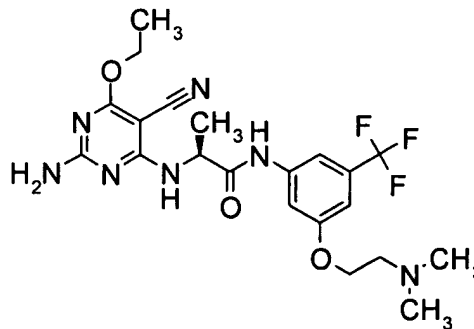
Entry	Name	Structure
176	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
177	2-(2-amino-5-cyano-6-ethoxypyrimidin-4-ylamino)-5-hydrazinyl-5-oxo-N-(3-(trifluoromethyl)phenyl)pentanamide	 Chiral
178	N ² -[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-3-(dimethylamino)-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
179	N ² -[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-[3-[[2-(dimethylamino)ethyl]oxy]-5-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral
180	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-[[2-(dimethylamino)ethyl]oxy]-5-(trifluoromethyl)phenyl]-L-alaninamide	 Chiral

Table 3

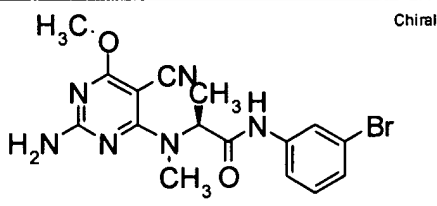
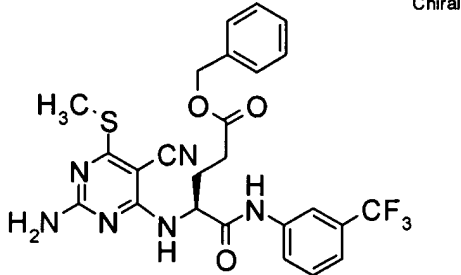
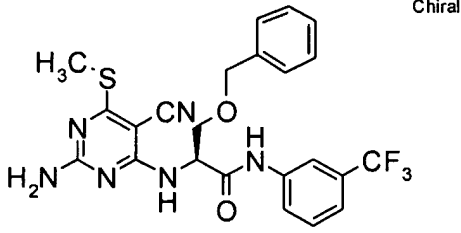
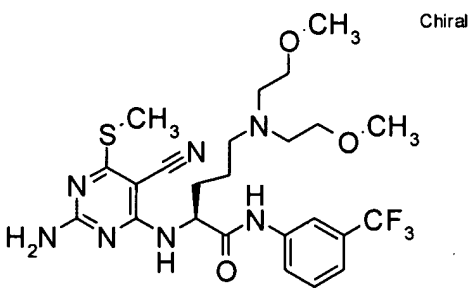
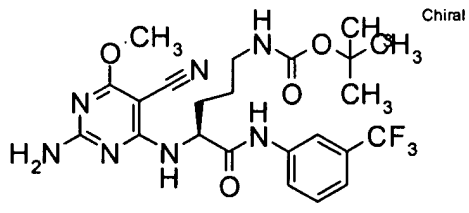
Entry	Name	Structure
181	N ² -[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-N-(3-bromophenyl)-N ² -methyl-L-alaninamide	
182	phenylmethyl N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-alpha-glutamate	
183	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-O-(phenylmethyl)-N-[3-(trifluoromethyl)phenyl]-L-serinamide	
184	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N~5~,N~5~-bis[2-(methoxy)ethyl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
185	1,1-dimethylethyl ((4S)-4-[[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]amino]-5-oxo-5-[[3-(trifluoromethyl)phenyl]amino]pentyl)carbamate	

Table 3

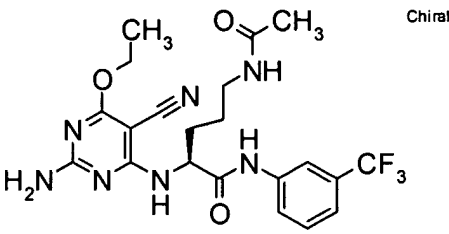
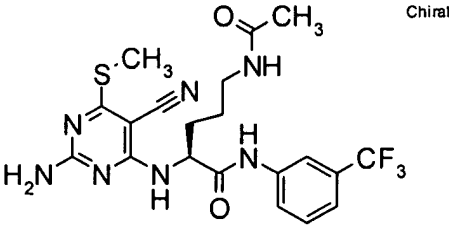
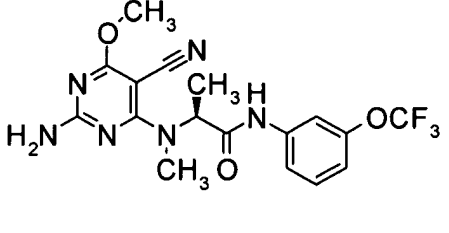
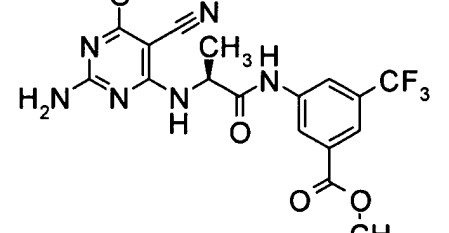
Entry	Name	Structure
186	N ⁵ -acetyl- N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
187	N ⁵ ~-acetyl- N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	
188	N ² -[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]- N ² -methyl-N-{3-[(trifluoromethyl)oxy]phenyl}-L-alaninamide	
189	methyl 3-({N-[2-amino-5-cyano-6-(methoxy)pyrimidin-4-yl]-L-alanyl}amino)-5-(trifluoromethyl)benzoate	

Table 3

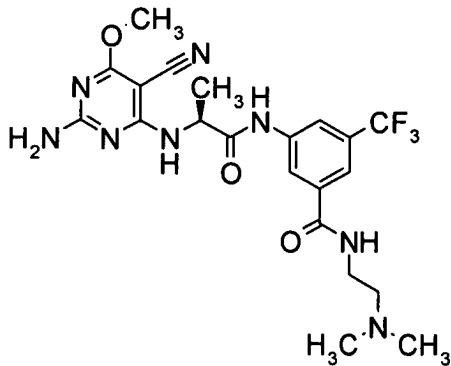
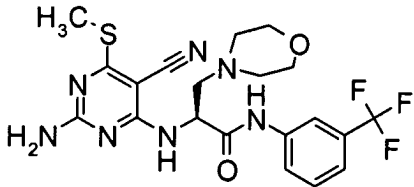
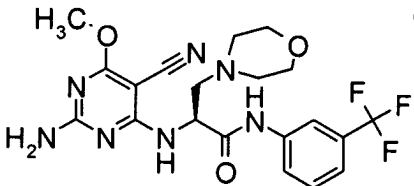
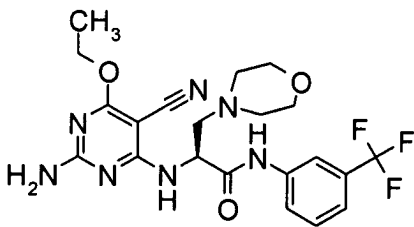
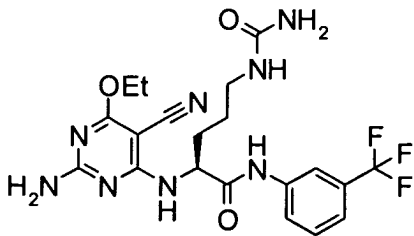
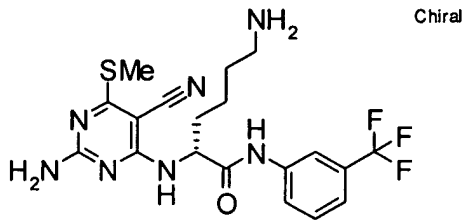
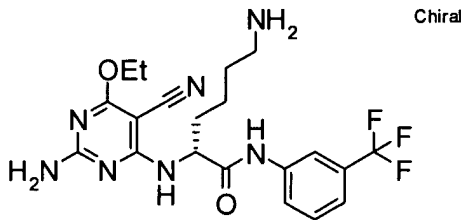
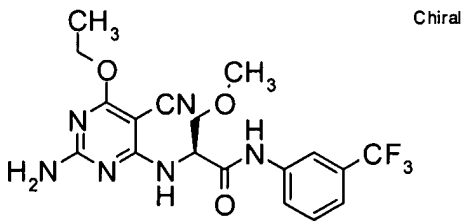
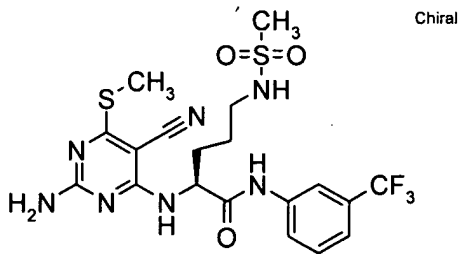
Entry	Name	Structure
190	3-((N-[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-L-alanyl)amino)-N-[2-(dimethylamino)ethyl]-5-(trifluoromethyl)benzamide	
191	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
192	N ² -[2-amino-5-cyano-6-(methyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
193	N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-3-morpholin-4-yl-N-[3-(trifluoromethyl)phenyl]-L-alaninamide	
194	N ⁵ -(aminocarbonyl)-N ² -[2-amino-5-cyano-6-(ethyloxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-L-ornithinamide	

Table 3

Entry	Name	Structure
195	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	
196	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-N-[3-(trifluoromethyl)phenyl]-D-lysineamide	
197	N ² -[2-amino-5-cyano-6-(ethoxy)pyrimidin-4-yl]-O-methyl-N-[3-(trifluoromethyl)phenyl]-L-serineamide	
198	N ² -[2-amino-5-cyano-6-(methylthio)pyrimidin-4-yl]-N ⁵ -(methylsulfonyl)-N-[3-(trifluoromethyl)phenyl]-L-ornithineamide	

35. (previously presented) A pharmaceutical composition comprising the compound according to claims 1 and a pharmaceutically acceptable carrier.

36. (previously presented) A metabolite of the compound or the pharmaceutical composition according to claims 1.

37. (previously presented) A method of modulating *in vivo* activity of a kinase, the method comprising administering to a subject an effective amount of a composition comprising a compound according to claim 1 and/or a compound explicitly provided against in claim 1.

38. (original) The method according to claim 37, wherein the kinase is p70S6K.

39. (original) The method according to claim 38, wherein modulating the *in vivo* activity of p70S6K comprises inhibition of p70S6K.

40. (previously presented) A method of treating diseases or disorders associated with uncontrolled, abnormal, and/or unwanted cellular activities, the method comprising administering, to a mammal in need thereof, a therapeutically effective amount of a composition comprising a compound according to claim 1 and/or a compound explicitly provided against in claim 1.

41. (previously presented) A method of screening for modulator of a p70S6 kinase, the method comprising combining either a compound according to claim 1 and/or a compound explicitly provided against in claim 1, and at least one candidate agent and determining the effect of the candidate agent on the activity of said kinase.

42. (currently amended) A method of inhibiting proliferative activity in a cell, the method comprising administering an effective amount of: the compound according to claims 1 and/or a compound explicitly provided against in claim 1.

43. (previously presented) A method of inhibiting abnormal metabolic activity in a cell, the method comprising administering an effective amount of: the compound according to any of claims 1 and/or a compound explicitly provided against in claim 1.